## Question 32089

According to $2^{\text {nd }}$ Newtons Law, $\vec{F}=m \vec{a}$, where $\vec{F}$ is the net force, exerted on the object, $m$ is the mass of the object, $\vec{a}$ is the acceleration of the object. Thus, $|\vec{F}|=m|\vec{a}|=6 \mathrm{~kg} \cdot 4 \frac{\mathrm{~m}}{\mathrm{~s}^{2}}=24 \mathrm{~N}$ - This is the net force acting on ball.

